

Dkt. 05156

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Group Art Unit: 3723

THORSTEN SCHEIBEL et al

Serial No.: 10/560,287

Filed: December 12, 2006

For: SUPPORT FOR STRUCTURAL COMPONENTS AND

METHOD FOR PRODUCING THE SAME

SUBMISSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Honorable Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Applicants submit herewith is the English translation of the International Preliminary Report on Patentability for the above-identified application.

Respectfully submitted,

Schultz

Registration No. 28666

& MACDONALD ALEXANDRIA, VłRGINIA 22314-2700 DENNISON, SCHULTZ, DOUGHERTY 1727 KING STREET

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference							
44236	FOR FURTHER ACTION	See Form PCT/IPEA/416					
International application No.	International filing date (day/month/year)	Priority date (day/month/year)					
.PCT/EP2004/006381	14.06.2004	13.06.2003					
International Patent Classification (IPC) or national classification and IPC							
Applicant							
SCHUNK KOHLENSTOFFTE	CHNIK GMBH						
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of	2. This REPORT consists of a total of sheets, including this cover sheet.						
3. This report is also accompanied by A	NNEXES. comprising:						
a. (sent to the applicant and	to the International Bureau) a total of 10	Sheets, as follows:					
1 1 1 1	•	een amended and are the basis for this report and/or					
sheets containing re Instructions).	ctifications authorized by this Authority (se	re Rule 70.16 and Section 607 of the Administrative					
1 1 1		considers contain an amendment that goes beyond the cated in item 4 of Box No. I and the Supplemental					
Box.	merianona apprecianon as medi as more	and the supplemental					
b. (sent to the International	Bureau only) a total of (indicate type and m	umber of electronic carrier(s))					
		. containing a sequence listing and/or tables					
·	related thereto. in computer readable form only. as indicated in the Supplemental Box Relating to Sequence Listing (see						
Section 802 of the Administrative Instructions).							
4. This report contains indications relati	ng to the following items:	•					
Box No. I Basis of the	report						
Box No. II Priority							
Box No. III Non-establi	shment of opinion with regard to novelty, in	nventive step and industrial applicability					
Box No. IV Lack of uni	ty of invention						
	tatement under Article 35(2) with regard to d explanations supporting such statement	novelty, inventive step or industrial applicability:					
Box No. VI Certain doc	uments cited						
Box No. VII Certain defo	ects in the international application						
Box No. VIII Certain obs	servations on the international application						
Date of submission of the demand	Date of completion	of this report					
	2						
Name and mailing address of the IPEA/EP	Authorized officer						
Facsimile No.	Telephone No.						

Translation

International application No.

PCT/EP2004/006381

Вох	No. 1	Basis of the report		
I.		n regard to the language, this report is based on the internation cated under this item.	nal application in the language in	which it was filed, unless otherwise
		This report is based on translations from the original language which is the language of a translation furnished for the purpose.		
		international search (Rule 12.3 and 23.1(b))		
		publication of the international application (Rule 12.4))	
		international preliminary examination (Rule 55.2 and/	or 55.3)	
2.	rece	n regard to the elements of the international application, this iving Office in response to an invitation under Article 14 art report): the international application as originally filed/furnished		
	\boxtimes	the description:		•
		pages		as originally filed/furnished
		pages* 2,4	received by this Authority on	13.04.2005 with telefax
		pages* 1,3	received by this Authority on	21.10.2005 with telefax
	\boxtimes	the claims:		
				as animinally Glad/Granish ad
		nos.		as originally filed/furnished
				r with any statement) under Article 19 13.04.2005 with
		nos.* 1-22	•	telerax
	\square	nos.*	received by this Authority on	
		the drawings:		
		sheets 1/3-3/3		as originally filed/furnished
		sheets*		
	_	sheets*	received by this Authority on	
	Ш	a sequence listing and/or any related table(s) – see Supplem	ental Box Relating to Sequence L	isting.
3.	\boxtimes	The amendments have resulted in the cancellation of:		
		the description, pages		
		the claims, nos. 23-33		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil		
		the description, pages		
		the claims, nos.		
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify):		
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	erseded."	

International application No.
PCT/EP2004/006381

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1.	Statement				
	Novelty (N)			1-22	YES
	Inventive step (IS)		Claims	1-22	
•	Industr	ial applicability (IA)		1-22	
			Claims		NO
<u>.</u>	Citations a	nd explanations (Rule 7	0.7)		
	1	This repo	rt mal	kes reference to the following	
		document:			
		D1: JP 20	00 30	4459	
		Dla: PATENT ABSTRACTS OF JAPAN vol. 2000, no. 14,			
		5 Ma:	rch 2	001 (2001-03-05)	
	2	Novelty (PCT A	rticle 33(1) and (2))	
	2.1	The prese	nt ap	plication meets the requirements of	
		PCT Artic	le 33	(1) because the subject matter of	
		independe	nt cl	aim 1 is novel within the meaning of	
		PCT Artic	le 33	(2).	
		D1 does n	ot di	sclose a continuous fiber bundle in	
		the form	of si	ngle-layer or multi-layer fiber	
		strands o	r twi	sted yarns, and therefore also does	
		not discl	ose a	grid of these continuous fiber	
		bundles.			
	2.2	Since ind	epend	ent claim 1 is novel, claims 2 to	

22, which are dependent on claim 1, are also

novel.

PCT/EP2004/006381

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement

3 Inventive step (PCT Article 33(1) and (3))

3.1 The present application meets the requirements of PCT Article 33(1) because the subject matter of independent claim 1 involves an inventive step within the meaning of PCT Article 33(3).

> D1, which is considered to be the prior art closest to that of independent claim 1, discloses a temperature-resistant support for the sintering process as the heat treatment process for electronic components.

The support consists of a ceramic frame in which long, continuous ceramic fibers that extend from the limbs and cross each other are stretched to form a net or a grid.

The subject matter of independent claim 1 differs from that of D1 in that a single continuous fiber bundle is used for the grid of the support.

The problem to be solved by the present invention can therefore be regarded as that of providing a support with different mesh widths which ensures that differently sized components to be hardened can be held on the support and ensures optimal flow of hardening oil or gas through the grid.

D1 does not disclose anything that would point to the solution to this problem, and the claimed solution according to independent claim 1 is not

International application No.
PCT/EP2004/006381

	PC1/EP2004/006381	
Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement	
	obvious within the scope of general considerations	
	from D1.	
	Another document that could solve this problem in	
-	the same way and which could be combined with Dl in order to cast doubt on the inventiveness of the	
•		
	present subject matter has not been found.	
	Independent claim 1 therefore involves an	
	inventive step (PCT Article 33(1) and (3)).	
3.2	Claims 2 to 22 are dependent on claim 1 and	
	therefore also meet the PCT requirements for	
	inventive step.	